Newborns and nitrate.

for an infant, you should ask advice from your health care drinking water can cause blue baby syndrome. Nitrate levels for infants less than six months of age. High nitrate levels in ours if the level of nitrate rises above 10 ppm. The media will ay rise quickly for short periods of time because of rainfall or

Lead in the home.

may be higher than at other homes in the community as a usually a soft dull, dark gray colored metal and can be easily esult of materials used in your home's plumbing,

4791). A booklet about lead in drinking water is available from is available from the Safe Drinking Water Hotline (1-800-426he Columbus Division of Water, Call 614-645-6186 for your valer, you may wish to have your water tested. Additionally, I you are concerned about elevated lead levels in your home's

Total Organic Carbon.

The value reported under "Level Found" for Total Organic righest monthly ratio. TOC removal requirements, A value of less than one indicates a siolation of the TOC removal requirements. The value reported inder "Range" for TOC is the lowest monthly ratio to the between the percentage of TOC actually removed to the

Tell us what you think.

DIVISION OF WATER AND SEWER 200 SOUTH HAMILTON ROAD

GAHANNA, OHIO 43230-2996

water. The Sewer and Water Advisory Board meetings are open We're interested in your questions and concerns about your to the public. Call 614-645-6186 for a schedule of meeting

PRSRT. STD.

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COLUMBUS OH

BECKY STINCHCOMB MAYOR

SERVICE DIRECTOR TERRY EMERY

How to read this report.

The goal of the Division of Water is to ensure that any contaminants in your drinking water are restricted below a level at which there is no known health risk. This report shows the types and amounts of key elements in your water supply, their likely sources and the maximum contaminant level (MCL) that the EPA considers safe.

What's not in your water.

Reports on TV and in the press often raise concerns about the health risks associated with the presence of certain minerals, chemicals or other contaminants in your food or water.

The Columbus Division of Water performs thousands of lests each year to ensure drinking water quality. Many substances, for which the Division tests, never appear in this report because they are not found in the drinking water. For example, there are 51 volatile organic chemicals as well as arsenic, MTBF, and ammonia (just to name a few) which are NOT found in your drinking water.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk, More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

The State of Ohio licenses and certifies the operators charged with running and maintaining each of the three water treatment plants. In order to stay current in the ever-changing technical field of water purification, these operators spend many hours of continuing education in the classroom every year.

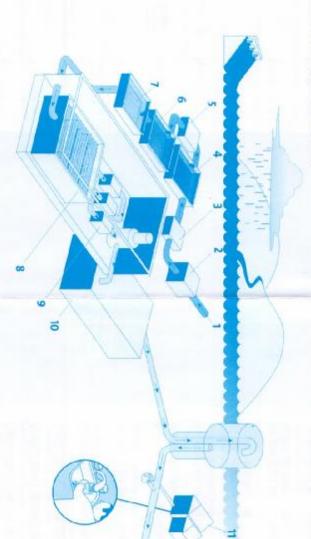
These operators, the Water Quality Assurance Laboratory staff, and all of the Division of Water employees are dedicated to providing WATER, a life-sustaining resource, for the well-being and economic vitality of the community. This is our mission.

This is important for people with special health needs. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infection.

These people should seek advice about drinking water from their health care providers, EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791). Columbus' water is regularly tested for organisms that could be harmful to people - including Cryptosporidium (Crypto).

While it is sometimes found in Ohio rivers and streams, Cryptosporidium has NEVER been found in our drinking water.

The Water Treatment Process



We treat water as a precious resource.

Water flows to the treatment plant (1) from the reservoir or stream through rotating screens (2) to remove large debris. It is then pumped into the plant where alum is added (3) to cause coagulation. After rapid mixing, the water remains in the settling basin (4) while sedimentation of floc occurs (2-4 hours). The water treatment residuals (settled floc) is pumped from the bottom of the pools and stored in holding lagoons to dry.

The softening process (5) involves the addition of sodium carbonate (soda ash) or caustic soda and hydrated lime to remove calcium and magnesium ions that are responsible for water hardness. This process takes an additional 2-4 hours. For each pound of chemical used in the treatment process, two pounds are removed.

After an additional sedimentation process, carbon dioxide is added (6) to lower the pH level to approximately 7.5. Water is held in a stabilizing basin (7) for another 2-4 hours.

Water then flows through large dual-media rapid sand filters made up of layers of gravel, sand and anthracite coal (8).

Addition of chlorine to disinfect the water, fluoride to protect teeth and a corrosion inhibitor (9) take place at the end of the process before water enters large underground clearwells (10) to be held until needed by the community (11).

Please note: When ground water is used, neither screening nor initial sedimentation is needed.

Distribution Map

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Each home, school and business in the greater Columbus area receives water from one of three Division of Water plants.



Your Water Comes From

Hap Cremeans Water Plant serves OSU and northern residents. The water source is the Hoover Reservoir.

PRIMARY DRINKING WATER STANDARDS

Substances we detected	When we checked	What's allowed? (MCL)	What's the goal? (MCLG)	HAP Cremean Level found	Range of detection	Are we within Compliance?	Where did it come from?
Fluoride (ppm)	2002	4	4	1.14	0.88-1.14	Yes!	Water additive - protects teeth
Nitrate (ppm)	2002	10	10	2.00	<0.50-2.00	Yest	Agricultural fertilizer runoff
Simazine (ppb)	2002	4	4	0.35	0.13-0.46	Yesl	Agricultural herbicide runoff
Atrazine (ppb)	2002	3	ω	0.82	0.18-0.93	Yes!	Agricultural herbicide runoff
Metolachlor (ppb)	2002	No set level	No goal set	N/A	<0.20-0.37	Yes!	Agricultural herbicide runoff
Metribuzin (ppb)	2002	No set level	No goal set	N/A	No detect	Yes!	Agricultural herbicide runoff
Chloroform (ppb)	2002	No set level	0	24.0	N/A	Yes!	By-product of drinking water disinfectant
Bromodichloromethane (ppb)	2002	No set level	0	7.97	N/A	Yes!	By-product of drinking water disinfectant
Dibromochloromethane (ppb)	2002	No set level	60	1.53	Z/S	Yes!	By-product of drinking water disinfectant
Bromoform (ppb)	2002	No set level	0	<0.5	Z	Yes!	By-product of drinking water disinfectant
Total haloacetonitriles (ppb)	1998	No set level	No goal set	N/A	10.6-18.4	Yes!	By-product of drinking water disinfectant
Total haloketones (ppb)	1998	No set level	No goal set	N/A	4.4-6.9	Yes!	By-product of drinking water disinfectant
Chloral hydrate (ppb)	1998	No set level	No goal set	N/A	7.0-16.1	Yes!	By-product of drinking water disinfectant

Total trikalomothanor (nah) 2002 90

Nin anal cat

Rumanduct of drinking

Total (rihalomethanes (ppb)	2002	80	No goal set 50	50	36.7-77.3 Yes	Yes	By-product of drinking water disinfectant
Total haloacetic acids (ppb)	2002	60	No goal set	40	28.9-55.2	Yes!	By-product of drinking water disinfectant
Total Alpha (pCi/L)	2002	15	0	۵	NA	Yes!	Erosion of natural deposits
Total Beta (pCi/L)	2002	50	0	4.3	A/N	Yes!	Decay of natural and man made deposits
Total Organic Carbon	2002	П (removal ratio >1) No goal set	No goal set	1.41	1.27-1.63	Yest	Naturally present in environment
Total Coliform Bacteria (P/A)	2002	Present in <5% of monthly samples	0%	0%	0-0%	Yes!	Bacteria present in environment
Turbidity (NTU)	2002	Πį	No goal set	0.16	0.06-0.16	Yes!	Soil Runoff

The EPA has two requirements; 1; That the maximum level found must be less than 1, and 2) That the level must be under 0.3 NTUs 95% of the line. Percent meeting the standards.

OTHER WATER QUALITY PARAMETERS OF INTEREST

No set level	No goal set	7.7	7.6-7.8	Yes!	Treatment process
No set level	No goal set	1.7	1.7-1.8	Yesl	Disinfectant
No set level	No goal set	113	99-127	Yesl	Naturally occuring
No set level	No goal set	13.4	10.8-18.0	Yes!	Natural/Treatment process
	No set level No set level No set level		No goal set No goal set No goal set No goal set	No goal set 7.7 No goal set 1.7 No goal set 113 No goal set 13.4	No goal set 7.7 7.6-7.8 No goal set 1.7 1.7-1.8 No goal set 113 99-127 No goal set 13.4 10.8-18.0

PRIMARY DRINKING WATER STANDARDS

No lead or copper testing required for 2002. Scheduled for 2003 testing.

Definitions of some terms contained within this report:

How much of any element is allowed in our water?

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

The "<" symbol means "less than". For example, a result of < 5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

The ">" symbol means "greater than".

How is this contamination measured?

Parts per million (ppm) or Milligrams per liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in about 11.5 days.

Parts per billion (ppb) or Micrograms per liter (ug/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in about 31.7 years.

pC/L: Picocuries per liter (a measure of radiation).

NTU: Nephelometric Turbidity Unit.

N/A: Not Applicable

When and how are contaminants treated?

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water. For turbidity the level must be under 0.5 NTU 95% of the time.